AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

- 1. (Currently Amended) A system for rendering a display, comprising:
 - a drawing component that determines visible items to a display; and
- a logic component that selectively defers layout of the visible items to the display in a just-in-time manner, the logic component determines complexity of the visible items in order to defer the layout, and the logic component associates a flag with the visible items, the flag being true for complex items and the flag being false for non-complex items.
- 2. (Canceled)
- 3. (Canceled)
- 4. (Currently Amended) The system of claim 1 [[3]], the complexity determined by a threshold number of subcomponents or children objects that are associated with the visible items.
- 5. (Original) The system of claim 1, further comprising a rough layout component to determine an approximation for the visible items.
- 6. (Original) The system of claim 1, further comprising a final layout component that renders the visible items to the display.
- 7. (Original) The system of claim 1, the visible items are associated with subcomponents or children elements appearing within the visible items.

- 8. (Original) The system of claim 5, the rough layout component performs a conceptual pass on the visible when a user interface object is constructed and added to a container.
- 9. (Original) The system of claim 8, the rough layout component is controlled by an implementor of a class.
- 10. (Original) The system of claim 8, the rough layout component determines property bounds of an object.
- 11. (Original) The system of claim 8, the rough layout component sets a "Layout Valid" property to false to inform a system that a layout is to be completed before an object is displayed.
- 12. (Original) The system of claim 6, the final layout component is a virtual function with a signature FinalLayout (ShapeF region).
- 13. (Original) The system of claim 12, the final layout component determines that an item is visible and finalizes an internal structure in preparation for a draw function.
- 14. (Original) The system of claim 13, further comprising a region submitted to the final layout component that is employed to selectively finalize layout on children elements.
- 15. (Currently Amended) The system of claim 1, drawing component is a virtual function having the signature Draw(Graphics g, ShapeF updateRegion).
- 16. (Original) The system of claim 15, further comprising a supplied region that indicates an area to be filled in.
- 17. (Original) The system of claim 16, further comprising a window that is partially revealed where the region is smaller than a total area of the window, the region employed for display optimization.

- 18. (Original) The system of claim 1, further comprising at least one application, the application including at least one of a user interface component, a CAD system, a software development system, a modeling system, a drawing system, and a diagrammatic system.
- 19. (Original) A computer readable medium having computer readable instructions stored thereon for implementing at least one of the components of claim 1.
- 20. (Currently Amended) A system for rendering items to a display, comprising: means for processing a set of display items; means for determining a complexity value for the display items; [[and]] means for associating a flag with the display items, the flag being true for complex items and the flag being false for non-complex items; and means for rendering the display items based in part on the complexity value and the flag.
- 21. (Currently Amended) A method to facilitate selective updating of a display, comprising: determining a rough layout for a collection of information items; determining a complexity parameter for the information items; associating a flag with the information items, the flag being true for complex items and the flag being false for non-complex items; and

tagging <u>non-complex</u> items from the collection for immediate display; and selectively tagging remaining <u>complex</u> items from the collection for display at a later time.

- 22. (Original) The method of claim 21, further comprising providing a Final Layout function, a Layout Complete function, and a Draw function to render items to a display.
- 23. (Currently Amended) The method of claim 21, the Rough Layout is invoked is for components and subcomponent to be displayed, wherein an approximate representation of a size of individual the components and subcomponents is calculated.
- 24. (Canceled)

- 25. (Currently Amended) The method of claim <u>21</u> [[25]], further comprising a child element rendering process, the process including at least one of:
 - 1) translating a region into local coordinates;
 - 2) determining which child elements are potentially required to draw;
 - 3) checking a layout validity of the child elements;
 - 4) invoking Final Layout on any item for which LayoutValid=>false; and
 - 5) invoking a draw function on child elements which overlap an update region.
- 26. (Currently Amended) A graphical user interface, comprising:
 at least one display object for displaying contents of an information item; and
 at least one layout function that selectively renders the display object based upon a
 determined graphical complexity associated with the information item, the layout function
 associates a flag with the information item, the flag being true for a complex information item
 and the flag being false for a non-complex information item.